|          | Index of Claims |                 |          |          |           |          |          |        |   |          |                             |          |          |          | Application/Control No. |               |              |                |  |                 |          |          |            |                 | Applicant(s)/Patent under Reexamination |            |                 |          |               |           |   |  |  |
|----------|-----------------|-----------------|----------|----------|-----------|----------|----------|--------|---|----------|-----------------------------|----------|----------|----------|-------------------------|---------------|--------------|----------------|--|-----------------|----------|----------|------------|-----------------|---|------------|-----------------|----------|---------------|-----------|---|--|--|
|          |                 |                 |          |          |           |          |          |        |   |          |                             |          |          |          |                         | 10/713,879    |              |                |  |                 |          |          |            |                 |   | LIU ET AL. |                 |          |               |           |   |  |  |
|          |                 |                 |          | Ш        |           |          |          |        |   |          |                             |          |          |          |                         | Examiner      |              |                |  |                 |          |          |            |                 |   | t Un       | it              |          |               |           |   |  |  |
|          |                 |                 |          |          |           |          |          |        | Ш |          | ]]                          |          |          |          |                         | Erin D. Chiem |              |                |  |                 |          |          |            |                 |   | 83         |                 |          |               |           |   |  |  |
|          |                 |                 |          |          |           |          |          |        |   |          |                             |          |          |          |                         | ٦             |              | <del>1 1</del> |  |                 |          | 1        | Г          | T               |   |            |                 |          |               |           |   |  |  |
|          |                 |                 |          | Rejected |           |          |          |        | - | '        | (Through numer<br>Cancelled |          |          | era      | ai)                     |               | N            | \ \            | Non-E  |                 | ted      |          | A          | Appeal          |   |            |                 |          |               |           |   |  |  |
|          |                 | =               | Allowed  |          |           | d        |          |        | ÷ |          | Restricted                  |          |          |          |                         |               |              | I Interfere    |  | fere            | nce      |          | 0          | Objected        |   |            |                 | ·        |               |           |   |  |  |
| CI       | aim             | _               | Date     |          |           |          |          |        |   | <br>]    | Г                           | Claim    |          |          | -                       | Date          |              |                | •  |                 |          | CI       | laim       |                 | Date                                    |            |                 |          |               |           | ٦ |  |  |
|          |                 | 2               |          |          |           |          |          |        |   | П        | r                           |          |          |          | Т                       |               |              |                | Ī  | TT              |          |          |            |                 | Date                                    |            |                 |          | П             | Т         | 7 |  |  |
| Final    | Original        | 5/12/05         |          |          |           |          |          |        |   |          |                             | Final    | Original |          |                         |               |              |                |  |                 |          | Final    | Original   |                 |   |            |                 |          |               | i         |   |  |  |
| <u> </u> | 1               | 1               | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ | $\dashv$ |        |   | Н        | -                           | $\dashv$ | 51       | +        | ╅                       | +             | ╁            | -              | ┢  | $\vdash$        | -        | -        | 101        | H               | +                                       | +          | $\vdash$        | Н        | Н             | +         | - |  |  |
|          | 2               | 1               |          |          | 4         | $\Box$   |          |        |   |          |                             |          | 52       |          |                         | I             |              |                |  |                 |          |          | 102        |                 |   |            |                 |          |               | 土         |   |  |  |
|          | 3               | 1               | $\dashv$ | $\dashv$ | -         | $\dashv$ | $\dashv$ |        |   | Н        | _                           |          | 53<br>54 |          | +                       | +             | +-           | <u> </u>       | ├-   |                 | 4        | <u> </u> | 103        |                 | 4                                       | +          | -               |          |               | $\perp$   |   |  |  |
|          | 5               | 1               | $\dashv$ | -        | $\dashv$  | $\dashv$ | $\dashv$ |        |   | H        | -                           | $\dashv$ | 55       | $\dashv$ | +                       | $\pm$         | ╁            | ├              | ╁  | $\vdash$        | -        |          | 104<br>105 | $\vdash$        | +                                       | +          | $\vdash$        | Н        | $\vdash$      | +         | + |  |  |
|          | 6               | 1               |          |          |           |          |          |        |   |          |                             |          | 56       |          |                         |               |              |                | T  |                 | ┪        |          | 106        | H               | _                                       | +          |                 |          |               | $\top$    |   |  |  |
|          | 7               | V               |          |          | _         | _        |          |        |   |          |                             |          | 57       |          |                         | $\perp$       |              |                | $oxed{\Box}$                                     |                 |          |          | 107        |                 |   | Ţ          |                 |          |               |           |   |  |  |
|          | 8               | 1               | $\dashv$ |          | $\dashv$  | $\dashv$ |          |        |   | Н        | <br> -                      |          | 58<br>59 | -        | +                       | - -           | +            | -              | ļ  | $\vdash$        | 4        |          | 108        | $\vdash$        | +                                       | -          | Н               | -        | $\vdash$      | +         |   |  |  |
|          | 10              | 1               |          | $\dashv$ | $\dashv$  | $\dashv$ | $\dashv$ |        |   | Н        | -                           | $\dashv$ | 60       | -        | +                       | +             | +-           | ┝              | ╁  |                 | -        | -        | 109<br>110 | Н               | +                                       | ╫          | +               | -        | $\vdash$      | +         | - |  |  |
|          | 11              | 1               | $\neg$   |          | 一         | T        | T        |        |   | П        |                             | $\neg$   | 61       | $\dashv$ | +                       | $\dagger$     | †            |                | 十  |                 | 1        |          | 111        | H               | $\dashv$                                | +          | $\vdash$        | $\vdash$ | $\vdash$      | ╅         |   |  |  |
|          | 12              | 1               |          |          |           |          |          |        |   |          |                             |          | 62       |          |                         |               |              |                |  |                 |          |          | 112        |                 |   |            |                 |          |               | $\top$    |   |  |  |
|          | 13              | 1               | $\dashv$ |          | _         | _        |          |        |   | Ц        | _                           |          | 63       |          | _                       |               | 1            |                |  |                 |          |          | 113        | П               | $\perp$                                 |            |                 |          |               |           |   |  |  |
|          | 14              | <b>√</b>        |          | -        | $\dashv$  | $\dashv$ | $\dashv$ | _      |   | Н        | $\vdash$                    |          | 64<br>65 | -        | +                       |               | ╄            | _              | ├-   | $\vdash \vdash$ | _        |          | 114        | Н               | +                                       | +          | Н               | $\dashv$ | $\dashv$      | -         |   |  |  |
|          | 16              | V               |          | 一        | -         | +        |          |        |   | Н        | ┢                           | $\dashv$ | 66       | -        | +                       | +             | ╁            | -              | H  | $\vdash$        | -        | -        | 115<br>116 | H               | $\dashv$                                | ╁          | H               | -        | $\dashv$      | +         | _ |  |  |
|          | 17              | 1               |          |          |           |          |          |        |   | П        |                             |          | 67       |          | $\top$                  | +             | $\dagger$    |                | <del>                                     </del> | $\Box$          | $\dashv$ |          | 117        | 1-1             | $\top$                                  | +          | T               |          | $\vdash$      | +         |   |  |  |
|          | 18              | 4               |          |          | $\Box$    | _ [      |          |        |   |          |                             |          | 68       |          |                         |               |              |                |  |                 |          |          | 118        |                 |   |            |                 |          |               | 工         |   |  |  |
|          | 19              | 1               | $\dashv$ | -        | 4         |          | $\dashv$ |        | _ | Ш        | L                           |          | 69       | _        | <u> </u>                | $\perp$       | $\perp$      | ļ              | ļ_   | Щ.              | _        | <u> </u> | 119        |                 |   | 1          |                 |          |               |           |   |  |  |
|          | 20              | √               |          |          | $\dashv$  |          | $\dashv$ |        | _ | Н        | -                           |          | 70<br>71 | -        | +                       | +             | ╁            | H              | ╁  | $\vdash$        | -        |          | 120<br>121 | H               | +                                       | +          | ├-              |          | $\vdash$      | +         | _ |  |  |
|          | 22              | V               |          | $\dashv$ | $\dashv$  | -        | $\dashv$ |        |   | H        | H                           |          | 72       | -        | +                       | +             | ╁            | $\vdash$       | +-   | -               | $\dashv$ |          | 122        |                 | +                                       | +          | +               | $\dashv$ | $\vdash$      | +         | = |  |  |
|          | 23              | 4               |          |          |           |          |          |        |   |          |                             |          | 73       |          | 7                       |               | 1            |                | <u> </u>   |                 | 1        |          | 123        |                 | +                                       | 1          | $\Box$          | П        | $\vdash$      | $\top$    |   |  |  |
|          | 24              | 1               |          |          | $\dashv$  |          | _        |        |   |          |                             |          | 74       |          | $\Box$                  | I             | Ţ            |                |  |                 |          |          | 124        |                 |   |            |                 |          |               |           |   |  |  |
|          | 25              | 7               | _        | -        |           | 4        | _        | _      |   |          | ┝                           | -        | 75       |          | +                       | _             | ┿            | _              | -  | <b>├</b> -┼-    | 4        | ļ        | 125        |                 |   | _          | 1.1             |          | $\perp$       | 4         |   |  |  |
| -        | 26<br>27        | 1               | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ | $\dashv$ |        |   | Н        | ┢                           | $\dashv$ | 76<br>77 |          | $\dashv$                | +             | +            | -              | $\vdash$   | $\vdash$        | $\dashv$ |          | 126<br>127 | $\vdash$        | +                                       | +          | -               | $\vdash$ | $\dashv$      |           | _ |  |  |
|          | 28              |                 |          |          |           | T        |          | П      | _ |          | 卜                           | $\neg$   | 78       |          | $\top$                  | +-            | $\dagger$    |                |  | $\vdash$        | _        |          | 128        | H               | +                                       | +          | 1               |          | $\dashv$      | +         |   |  |  |
|          | 29              |                 |          |          |           |          |          |        |   |          |                             |          | 79       |          |                         | 工             |              |                |  |                 |          |          | 129        |                 |   |            |                 |          |               |           |   |  |  |
|          | 30              | Ш               |          | _        |           | _        | _        |        |   | Щ        | $\vdash$                    |          | 80       |          | _                       | $\perp$       | 1            | _              | Ŀ  |                 | 4        |          | 130        |                 | $\perp$                                 |            | $oxed{oxed}$    |          | $\Box$        |           |   |  |  |
| -        | 31              | Н               |          |          | $\dashv$  | $\dashv$ |          |        | _ | H        | F                           | $\dashv$ | 81<br>82 | +        | +                       | -             | +            | -              | -  |                 | -        | -        | 131<br>132 | $\vdash \vdash$ | -                                       | ┿          | Н               |          | -             | +         | 4 |  |  |
|          | 33              | Н               |          | _        | 7         | +        |          | _      | _ | Н        | $\vdash$                    |          | 83       | +        | +                       | +             | +            | -              |  | $\dashv$        | -        | $\vdash$ | 133        | $\vdash$        | ╬                                       | ╁          | H               |          |               | +         | - |  |  |
|          | 34              |                 |          |          |           | T        |          |        | _ | П        | F                           |          | 84       | 1        | 十                       |               | $\dagger$    | -              |  | $\neg$          | 1        |          | 134        | H               | +                                       | +          | H               |          | $\vdash$      | +         | † |  |  |
|          | 35              |                 | $\Box$   | $\Box$   | I         | Ţ        |          |        |   |          |                             |          | 85       |          | Ţ                       | $\bot$        | $oxed{\Box}$ |                |  | $\Box$          |          |          | 135        | Ш               |   |            |                 |          |               |           | ] |  |  |
| <u> </u> | 36              | Н               |          | -+       | -         |          | _        | _      |   | Щ        | -                           | _        | 86       | $\dashv$ | +                       | +             | ┼            | <u> </u>       |  | $\vdash$        | 4        | <u> </u> | 136        | $\sqcup$        | $\perp$                                 | $\perp$    | $\sqcup$        |          |               |           | 4 |  |  |
| -        | 38              | Н               | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ | $\dashv$ |        |   | H        | -                           |          | 87<br>88 | +        | +                       | +-            | +-           | <del> </del>   | $\vdash$   | $\vdash \vdash$ | 4        |          | 137<br>138 | $\vdash$        | +                                       | +          | ┼┤              |          | $\dashv$      | +         | 4 |  |  |
|          | 39              | H               | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ | $\dashv$ |        | _ | H        |                             |          | 89       | +        | +                       | +-            | +            | <del> </del>   | H  | $\vdash$        | $\dashv$ | <u> </u> | 138        | $\vdash$        | +                                       | +          | $\vdash$        |          | +             | +         | 1 |  |  |
|          | 40              |                 |          |          |           |          |          |        |   |          |                             |          | 90       | 丁        | ightharpoons            | ╧             |              |                |  |                 |          |          | 140        | $\Box$          | $\top$                                  | $\top$     | $\vdash \vdash$ |          | $\dashv$      | $\dagger$ | 7 |  |  |
|          | 41              |                 | $\Box$   | $\dashv$ | $\exists$ |          | $\Box$   | $\Box$ |   |          |                             |          | 91       | $\Box$   | Ţ                       |               | $\Box$       |                |  |                 |          |          | 141        |                 |   |            |                 |          |               |           |   |  |  |
| -        | 42              | $\vdash \vdash$ | _        |          |           | $\dashv$ | 4        | _      |   | Н        |                             |          | 92       |          | 1                       | $\perp$       | 4_           | L              | $oxed{oxed}$                                     |                 | _        |          | 142        | $\coprod$       | $\perp$                                 | $\bot$     | $\Box$          | Ц        | П             | Ţ         | _ |  |  |
| ļ        | 43              | Н               | $\dashv$ | $\dashv$ |           | $\dashv$ | 4        |        |   | $\vdash$ | $\perp$                     |          | 93       | $\bot$   | -                       | $\bot$        |              | <u> </u>       | <u> </u>   | $\vdash \vdash$ | _        | <u></u>  | 143        | $\sqcup$        | _                                       |            | $\sqcup$        |          | $\perp \perp$ |           |   |  |  |

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